

#### ABSTRACT OF THE DISCLOSURE

5 A method generally includes electronically accessing positional data defining a defect location on a composite structure, and automatically causing a material placement machine to return to the defect location as defined by the positional data. The method can also include automatically causing the material placement machine to place or lay down material sufficient for repairing a defect at the defect location. Alternatively, the material placement machine may automatically return to a defect location, and then an operator may manually repair the defect at the defect location.